

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/US2004/032814A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61F13/15 A61F13/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 133 307 A (NESS RICHARD A) 9 January 1979 (1979-01-09) column 1, lines 36-54 column 2, line 54 - column 3, line 13 -----	1,2
Y	US 6 159 584 A (EATON BRADLEY W ET AL) 12 December 2000 (2000-12-12) column 2, line 59 - column 3, line 15 -----	1,13-15
X	US 5 779 691 A (SCHMITT ACHIM) 14 July 1998 (1998-07-14) column 1, line 42 - column 2, line 21; figure 1 -----	1,13-15
A	US 6 142 968 A (ROBINSON JOSEPH WILLIAM ET AL) 7 November 2000 (2000-11-07) column 2, line 35 - column 3, line 65 ----- -/--	1-12

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

14 January 2005

Date of mailing of the international search report

21/01/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Lanniel, G

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6 432 074 B1 (JONES TIM ET AL) 13 August 2002 (2002-08-13) column 1, line 49 - column 2, line 48 -----	1,13-15

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/032814

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4133307	A	09-01-1979	NONE
US 6159584	A	12-12-2000	AU 745499 B2 21-03-2002
		AU 9214598 A 18-10-1999	
		BR 9815770 A 21-11-2000	
		CA 2326512 A1 30-09-1999	
		CN 1291089 T 11-04-2001	
		DE 29825018 U1 26-02-2004	
		DE 29825043 U1 06-05-2004	
		DE 69822519 D1 22-04-2004	
		EP 1437112 A2 14-07-2004	
		EP 1066008 A1 10-01-2001	
		JP 2002507495 T 12-03-2002	
		TW 442391 B 23-06-2001	
		WO 9948455 A1 30-09-1999	
		US 6531207 B1 11-03-2003	
		ZA 9902317 A 10-10-2000	
US 5779691	A	14-07-1998	EP 0704196 A1 03-04-1996
		AT 182067 T 15-07-1999	
		AU 3626795 A 26-04-1996	
		CA 2200974 A1 11-04-1996	
		DE 69419514 D1 19-08-1999	
		DE 69419514 T2 28-10-1999	
		ES 2133458 T3 16-09-1999	
		HK 1013222 A1 23-06-2000	
		JP 10506552 T 30-06-1998	
		WO 9610382 A1 11-04-1996	
		ZA 9507730 A 17-05-1996	
US 6142968	A	07-11-2000	AT 213613 T 15-03-2002
		AU 705181 B2 20-05-1999	
		AU 5157096 A 23-10-1996	
		CA 2215142 A1 10-10-1996	
		CN 1185727 A , B 24-06-1998	
		DE 69619507 D1 04-04-2002	
		DE 69619507 T2 10-10-2002	
		DK 820261 T3 10-06-2002	
		EP 0820261 A1 28-01-1998	
		ES 2173273 T3 16-10-2002	
		WO 9631175 A1 10-10-1996	
		HK 1009739 A1 17-09-2004	
		JP 11509583 T 24-08-1999	
		NZ 304395 A 28-01-2000	
		PT 820261 T 31-07-2002	
		ZA 9602585 A 03-10-1996	
US 6432074	B1	13-08-2002	AT 248566 T 15-09-2003
		AU 734219 B2 07-06-2001	
		AU 7345898 A 08-12-1998	
		CA 2289730 A1 19-11-1998	
		DE 69817809 D1 09-10-2003	
		DE 69817809 T2 01-07-2004	
		EP 0984755 A1 15-03-2000	
		ES 2205486 T3 01-05-2004	
		WO 9851247 A1 19-11-1998	
		ZA 9803953 A 10-11-1998	